

### **ABSTRACT OF THE DISCLOSURE**

[0434] The present invention relates to compositions comprising complexes of human cells and polymer fibers and methods of their use for therapeutic purposes. Methods of making such compositions are also provided. The present invention encompasses compositions comprising poly- $\beta$ -1 $\rightarrow$ 4-N-acetylglucosamine polymers and stored platelets and their use for promoting wound healing and achieving hemostasis.